

WHAT IS CLAIMED IS:

1. A mucosa excising device using an endoscope comprising:

a substantially cylindrical cap having a circular
5 end portion including a holding mechanism which holds
an end portion of a snare wire in a loop form; and
an attachment portion which attaches the cap to
an end portion of an endoscope,

wherein the holding mechanism has a plurality of
10 engagement portions which are provided in the vicinity
of an end edge of the cap and distanced from each other
in a circumferential direction, and each engagement
portion has an engagement piece and a corresponding
portion which hold the snare wire 22 therebetween.

15 2. The mucosa excising device using an endoscope
according to claim 1, wherein the engagement piece and
the corresponding portion elastically hold the snare
wire therebetween.

3. The mucosa excising device using an endoscope
20 according to claim 1, wherein the cap has a cylindrical
wall having an end portion constituting the circular
end portion and an inner flange provided so as to
inwardly protrude from the end portion of the wall, and
each of the engagement pieces is formed so as to be
25 sectioned from the corresponding portion by a pair of
vertical notches which are distanced at the circular
end portion in the circumferential direction and formed

at an angle with the circumferential direction.

4. The mucosa excising device using an endoscope according to claim 3, wherein each pair of vertical notches are formed so as to extend from the end to
5 the base end of the circular end portion.

5. The mucosa excising device using an endoscope according to claim 3, wherein the inner flange has a plurality of lateral notches extending in the circumferential direction, and each pair of vertical
10 notches extend toward the cylindrical wall from both ends of each lateral notch.

6. The mucosa excising device using an endoscope according to claim 3, wherein the circular end portion has a plurality of lateral notches extending in the circumferential direction between the inner flange and
15 the cylindrical wall, and each pair of vertical notches extend toward the cylindrical wall from both ends of each lateral notch.

7. The mucosa excising device using an endoscope
20 according to claim 1, wherein the engagement piece can swivel to a side where the circular end portion is positioned with respect to the corresponding portion, and it holds the snare wire between its outer surface and one surface of the corresponding portion when
25 caused to swivel.

8. The mucosa excising device using an endoscope according to claim 4, wherein the engagement piece is

elastically deformed and caused to swivel, and the snare wire is pressed against the corresponding portion by an elastic return force of the engagement piece.

9. The mucosa excising device using an endoscope
5 according to claim 4, wherein the corresponding portion
has a flange provided so as to inwardly protrude
from the cylindrical wall, the engagement piece has
separation portions separated from each other by
a notch portion formed in the inner flange, and the
10 snare wire is supported between the flange and the
separation portions.

10. The mucosa excising device using an endoscope
according to claim 1, wherein the engagement pieces and
the corresponding portions are alternately arranged in
15 the circumferential direction of the circular end
portion.

11. The mucosa excising device using an endoscope
according to claim 1, further comprising: a snare
sheath into which the snare wire is inserted; and
20 a flexible tube which has an opening on an end side,
the opening communicating with the inner side of the
cap, which is arranged outside the insertion portion
of the endoscope when the cap is attached to the
endoscope, and is used to insert the snare sheath in
25 which the snare where is inserted therethrough, wherein
fixing means for fixing the snare sheath so as to be
capable of being released is provided in the vicinity

of a base end portion of the flexible tube.

12. A mucosa excising device using an endoscope comprising: a substantially cylindrical cap; an attachment portion which attaches the cap to an end portion of an endoscope; and a flexible tube whose end opening communicates with the inner side of the cap, which is arranged outside an insertion portion of the endoscope when the cap is attached to the endoscope and used to insert a snare sheath of a high-frequency snare therein, an end portion of a snare wire of the high-frequency snare inserted in the cap through the flexible tube being expanded and arranged in the cap, wherein fixing means for fixing the snare sheath of the high-frequency snare so as to be capable of being released is provided in the vicinity of the base end portion of the flexible tube.